2009 ANNUAL ANALYSIS OF CEDAR & TOLT WATER SUPPLIES

Distribution Water Quality *(unless otherwise noted)*

Samples Collected: June 2, 2009 *(unless otherwise noted)*

Cedar Distribution = South of the ship canal & lower elevations North of ship canal. Tolt Distribution = Higher elevations North of the ship canal.

Water Quality Parameter	State Dept. of Health Maximum Contaminant Level	CEDAR	TOLT	Minimum Reporting Level
Primary Standards *	**MCL**			
Antimony	6 µg/L	ND	ND	1.0
Arsenic	10 µg/L	ND	ND	0.5
Asbestos $	7 million fibers/L (>10um long)	ND (1995)	ND (1995)	0.2
Barium	2000 µg/L	1.8	1.9	0.2
Beryllium	4 µg/L	ND	ND	0.2
Bromate #	10 µg/L	ND (6/03/09)	ND(6/09/09)	5.0
Cadmium	5 µg/L	ND	ND	0.5
Chromium	100 µg/L	ND	ND	0.5
Cyanide	200 µg/L	ND	ND	10
Fluoride	4 mg/L	0.92	1.00	0.10
Haloacetic Acids(5), Total~	60 µg/L	23	33	1.0
Mercury	2 µg/L	ND	ND	0.2
Nickel	100 µg/L	ND	ND	0.5
Nitrate-Nitrogen	10 mg/L	0.074	0.145	0.01
Nitrite-Nitrogen	1 mg/L	ND	ND	0.002
Selenium	50 µg/L	ND	ND	0.5
Thallium	2 µg/L	ND	ND	0.2
Trihalomethanes, Total~	80 µg/L	31	34	0.5
Turbidity #	5 NTU for Cedar/ 0.30 NTU for Tolt	0.76	0.11	0.05
Secondary Standards **	**SMCL**			
Aluminum	50 - 200 µg/L	31	30	1.0
Chloride	250 mg/L	3.0	2.6	0.5
Color	15 std. units	ND	ND	5
Fluoride	2 mg/L	0.92	1.00	0.10
Iron	300 µg/L	71	39	6
Manganese	50 µg/L	4.4	1.2	0.5
pH, range ++	6.5 - 8.5 pH units	7.86 - 8.49	8.22 - 8.43	NA
Silver	100 µg/L	ND	ND	0.5
Solids,Total Dissolved	500 mg/L	43.0	40.5	5.0
Specific Conductance	700 µmhos/cm	62.2	61.6	5.0
Sulfate	250 mg/L	ND	1.2	1.0
Zinc	5000 µg/L	ND	ND	0.5
Other Parameters	**Units**			
Alkalinity, Total	mg/L (as $CaCO_3$)	18.1	18.9	2.0
Bromide	µg/L	ND	ND	5
Calcium	mg/L (as $CaCO_3$)	21.8	26.2	2.0
Copper, Source water	µg/L	2.4	1.5	0.5
Hardness	mg/L (as $CaCO_3$)	25.0	26.7	2.0
Hardness	grains/gal. (as $CaCO_3$)	1.45	1.54	0.1
Lead, Source water	µg/L	ND	ND	0.5
Magnesium	mg/L	0.80	0.37	0.01
Oxygen, Dissolved	mg/L	12.1	17.7	0.5
Phosphate, soluable-reactive	µg/L	3.9	2.4	2
Potassium	mg/L	0.24	0.13	0.02
Silica, Reactive	mg/L	9.2	5.5	1.0
Sodium	mg/L	1.86	0.95	0.08
Temperature, normal annual range	deg. C.	4.6 - 23	3.3 - 22	NA
Total Organic Carbon #	mg/L	0.82	0.98	0.20
Residential Survey @ 2007 Lead Reduced Monitoring	**Action Level** 15 µg/L	**Combined System** 6.0		1.0
2007 Copper Reduced Monitoring	1300 µg/L	140		1.0

Primary and Secondary Standards were measured at the Intake to the distribution system after treatment.

* Health stds.: Supplier subject to public notification.

** Aesthetic stds.: Supplier not subject to public notification.

~ Average of the last 4 quarters testing, through 5/09.

ND = Not Detected at or above the Minimum Reporting Level

++ January-June 2009, 10-90th percentile

$ Test results 12/15/95 - To be analyzed in 2009.

As measured at treatment plant.

1 ppm = 1 mg/L = 1000 µg/L

@ Measured at 90th percentile of overnight standing residential samples from homes with copper pipes and lead solder.

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http://www.seattle.gov/util/About_SPU/Water_System/Water_Quality/index.asp